

WHAT IS CLAIMED IS:

1. A gas-barrier multi-layer structure comprising at least one gas-barrier layer A and at least one thermoplastic resin layer B, the gas-barrier layer A comprising a crystallizable polyamide resin produced by polycondensing
5 a diamine component containing 70 mol% or more of m-xylylenediamine with a dicarboxylic acid component containing 80 to 97 mol% of a C₄-C₂₀ α,ω -linear aliphatic dicarboxylic acid and 3 to 20 mol% of isophthalic acid, and the crystallizable polyamide resin having a minimum half crystallization time of 40 to 2,000 s in a measuring temperature range from a glass transition point
10 thereof to less than a melting point thereof when measured by isothermal crystallization according to depolarization photometry.

2. The gas-barrier multi-layer structure according to claim 1, wherein the polyamide resin for the gas-barrier layer A has an oxygen transmission coefficient of 0.01 to 0.15 cc·mm/m²·day·atm when measured at 23°C and 60%
15 relative humidity.

3. The gas-barrier multi-layer structure according to claim 1, wherein the polyamide resin for the gas-barrier layer A has a melting point of 180 to 235°C.

4. The gas-barrier multi-layer structure according to claim 1, wherein
20 the polyamide resin for the gas-barrier layer A has a glass transition point of 85 to 110°C.

5. The gas-barrier multi-layer structure according to claim 1, wherein the thermoplastic resin for the thermoplastic resin layer B has a Vicat softening point of T_g to T_g + 70°C when measured according to JIS K-7206,
25 wherein T_g is the glass transition point of the polyamide resin for the gas-barrier layer A.

6. The gas-barrier multi-layer structure according to claim 1, wherein the thermoplastic resin for the thermoplastic resin layer B is a polyolefin.

7. The gas-barrier multi-layer structure according to claim 1, wherein

a thickness of the gas-barrier layer A is 1 to 50% of an overall thickness of the multi-layer structure.

8. The gas-barrier multi-layer structure according to claim 1, wherein the gas-barrier layer A and the thermoplastic resin layer B are laminated
- 5 through an intervening adhesive resin layer.

9. The gas-barrier multi-layer structure according to claim 1, which is made into a form of a multi-layer container.